



US 20170268496A1

(19) **United States**(12) **Patent Application Publication**  
**McIntyre**(10) **Pub. No.: US 2017/0268496 A1**(43) **Pub. Date: Sep. 21, 2017**(54) **PERISTALTIC PUMP**(71) Applicant: **John McIntyre**, Traverse City, MI (US)(72) Inventor: **John McIntyre**, Traverse City, MI (US)(21) Appl. No.: **15/160,093**(22) Filed: **May 20, 2016****Related U.S. Application Data**

(63) Continuation of application No. 15/075,617, filed on Mar. 21, 2016, now abandoned.

**Publication Classification**(51) **Int. Cl.**  
**F04B 43/12** (2006.01)  
**F04B 45/08** (2006.01)(52) **U.S. Cl.**CPC ..... **F04B 43/1238** (2013.01); **F04B 43/1253**  
(2013.01); **F04B 45/08** (2013.01)

(57)

**ABSTRACT**

A peristaltic pump device includes a resilient tube secured in a pump housing with a rotor having rollers squeezing against the resilient tube facilitating the pumping of a liquid or gas. A cylindrical rotor rotates in a bore provided in the pump housing. The rotor has steps in which rollers freely slide and rotate. As the rotor rotates, the rollers also rotate and are slidingly held in the rotor step thereby frictional contact with the compressing resilient tube and consequently the liquid or gas within goes out of the resilient tube. The pump is inexpensive to build, reliable, and by design promotes the long life of the resilient tube as compared to existing roller type peristaltic pumps.

